# HARRIS CREEK INTERCEPTOR IMPROVEMENTS

ROLESVILLE, NORTH CAROLINA

SURVEY BY:

BATEMAN CIVIL SURVEY COMPANY
2424 RELIANCE AVENUE, APEX, NC 27539

TOPOGRAPHIC DECEMBER 22, 2019 ALTA SURVEY DECEMBER 12, 2019 STEVEN P CARSON, PLS NC LICENSE # 4752

919-577-1081

PROJECT NUMBER: AWH-21002

DATE: xxxxx

#### SHEET INDEX

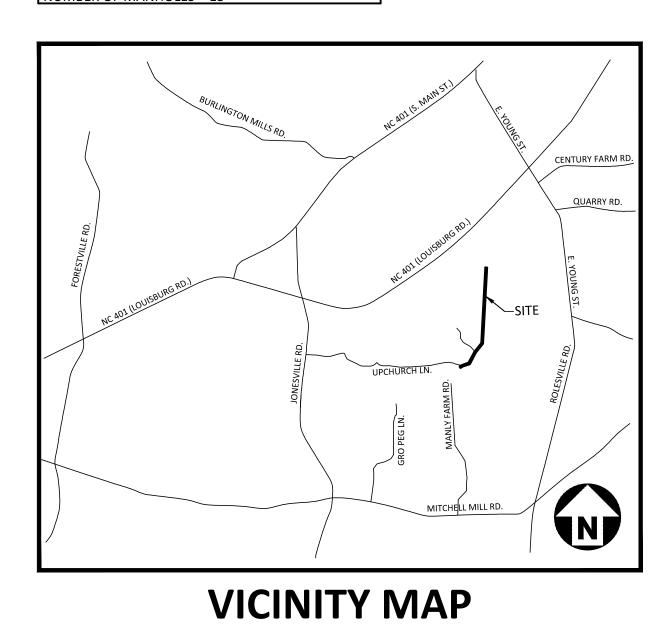
CO.00 PROJECT NOTES AND SITE DETAILS
C5.00 PLAN AND PROFILE - HARRIS CREEK INTERCEPTOR STA. 34+00.00 THRU STA. 43+00.00

C5.01 PLAN AND PROFILE - HARRIS CREEK INTERCEPTOR STA. 43+00.00 THRU STA. 52+00.00
C5.02 PLAN AND PROFILE - HARRIS CREEK INTERCEPTOR STA. 52+00.00 THRU STA. 61+00.00
C5.03 PLAN AND PROFILE - HARRIS CREEK INTERCEPTOR STA. 61+00.00 THRU STA. 64+00.00

C8.01 SANITARY SEWER DETAILS C8.02 EROSION CONTROL DETAILS

## PUBLIC UTILITY IMPROVEMENT QUANTITIES OF SEWER MAIN & MANHOLES

OF SEVVER IVIAIIV & IVIAINTOLES		
	SIZE	LENGTH
	18" PVC (LF)	418 LF
	24" PVC (LF)	3,469 LF
	NUMBER OF MANHOLES = 13	



CITY OF RALEIGH — PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of

<u>Water and Sewer Permits (If applicable)</u>

and specifications of the City's Public Utilities Handbook.

City of Raleigh Public Utilities Department Permit #

Utilities Handbook. City of Raleigh Public Utilities Department Permit # \_

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Raleigh Review Officer below. The City will retain a copy of the approval plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval

SITE PERMITTING APPROVAL

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City of Raleigh Review Officer



The John R. McAdams Company, Inc 2905 Meridian Parkway Durham, NC 27713

phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

www.mcadamsco.com

#### CONTACT

MIKE SANCHEZ sanchez@mcadamsco.com PHONE: 919. 361. 5000

#### CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC. 5711 SIX FORKS ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 PHONE: 919. 232. 3695 CONTACT: BOB MISHLER

#### PROJECT DIRECTORY



#### REVISIONS

NO. DATE

HARRIS CREEK INTERCEPTOR IMPROVEMENTS

ROLESVILLE, NORTH CAROLINA PROJECT NUMBER: AWH-21002

## CITY OF RALEIGH PUBLIC UTILITIES

- STANDARD UTILITY NOTES (AS APPLICABLE)
- 1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
- 2. UTILITY SEPARATION REQUIREMENTS:
- a. A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
- b. WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO
- c. WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
- d. 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS
- e. MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 &
- f. ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION
- 3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
- 5. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
- 6. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
- 7. INSTALL 3/4" COPPER WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
- 8. INSTALL 4" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
- 9. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
- 10. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
- 11. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
- 12. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT (919) 996-2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION.
- 13. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.

#### NOTES:

DEEDS OF EASEMENT FOR SANITARY SEWER PURPOSES TO CITY OF RALEIGH RECORDED IN BOOK 12249, PAGE 864 AND BOOK 12466, PAGE 1149 AND AS SHOWN ON RECORDED PLAT IN BOOK OF MAPS 2006, PAGES 2216 AND 2217, WAKE COUNTY REGISTRY.

(DEED OF EASEMENT SUPERSEDED BY BM 2008 PG 480 & 481)

RIGHT OF WAY AND UTILITY EASEMENTS RECORDED IN BOOK 13736. PAGES 1287 AND 1294 AND AS SHOWN ON RECORDED PLAT IN BOOK OF MAPS 2009, PAGE 1091, WAKE COUNTY REGISTRY.

(AS SHOWN ON SURVEY)

DEEDS OF EASEMENT FOR SANITARY SEWER PURPOSES TO CITY OF RALEIGH RECORDED IN BOOK 12249, PAGE 860 AND BOOK 12466, PAGE 1171 AND AS SHOWN ON RECORDED PLAT IN BOOK OF MAPS 2006, PAGES 2216 AND 2217, WAKE COUNTY REGISTRY.

#### **BY-PASS PUMPING NOTES**

- 1. DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO PROPERTY OWNER FOR ANY WORK REQUIRED WITHIN AN
- EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY. 2. A BYPASS PLAN SEALED BY A NC PROFESSIONAL ENGINEER MUST BE SUBMITTED TO CITY OF RALEIGH PUBLIC UTILITIES PRIOR TO PUMPING OPERATIONS TO COORDINATE WITH ENGINEERING STAFF, PUMPS SHOULD BE SIZED TO HANDLE THE PEAK FLOW(2.5 TIMES THE AVERAGE DAILY FLOW) FOR THE LINE OR AREA OF WORK. THE CONTRACTOR SHALL SECURE THE PUMPS FROM A PUMP SUPPLIER ACCORDING TO THE PROVIDED FLOW INFORMATION. PUMPING OPERATIONS MUST BE MONITORED 24 HOURS A DAY FOR EACH OF THE PUMPING OPERATION BY QUALIFIED PERSONNEL IN ORDER TO RESPONSE TO PROBLEMS OR FAILURES. 100% REDUNDANCY IS REQUIRED FOR PUMPING OPERATIONS. IN ADDITION, BACK UP PUMPS ARE TO BE CONNECTED TO THE BYPASS FORCE MAIN TO FACILITATE IMMEDIATE USE UPON FAILURE OF THE PRIMARY PUMPS.



The John R. McAdams Company, Inc.

2905 Meridian Parkway

Durham, NC 27713

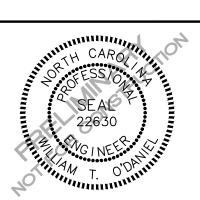
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.\Images\Ashton Woods logo.jpg



### SITE PERMITTING APPROVAL

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City of Raleigh Development Approval

City of Raleigh Review Officer

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

#### **REVISIONS**

NO. DATE

#### PLAN INFORMATION

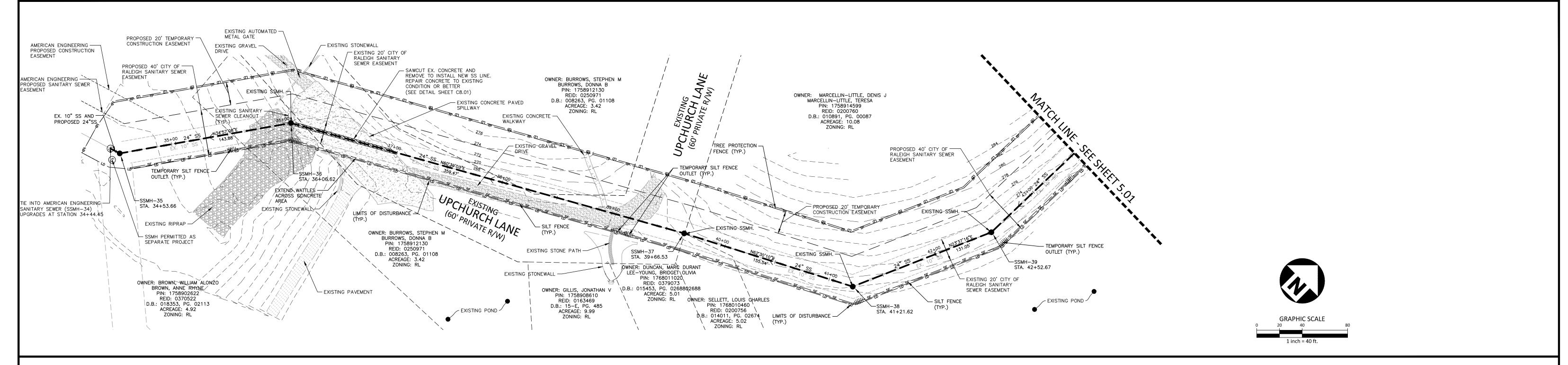
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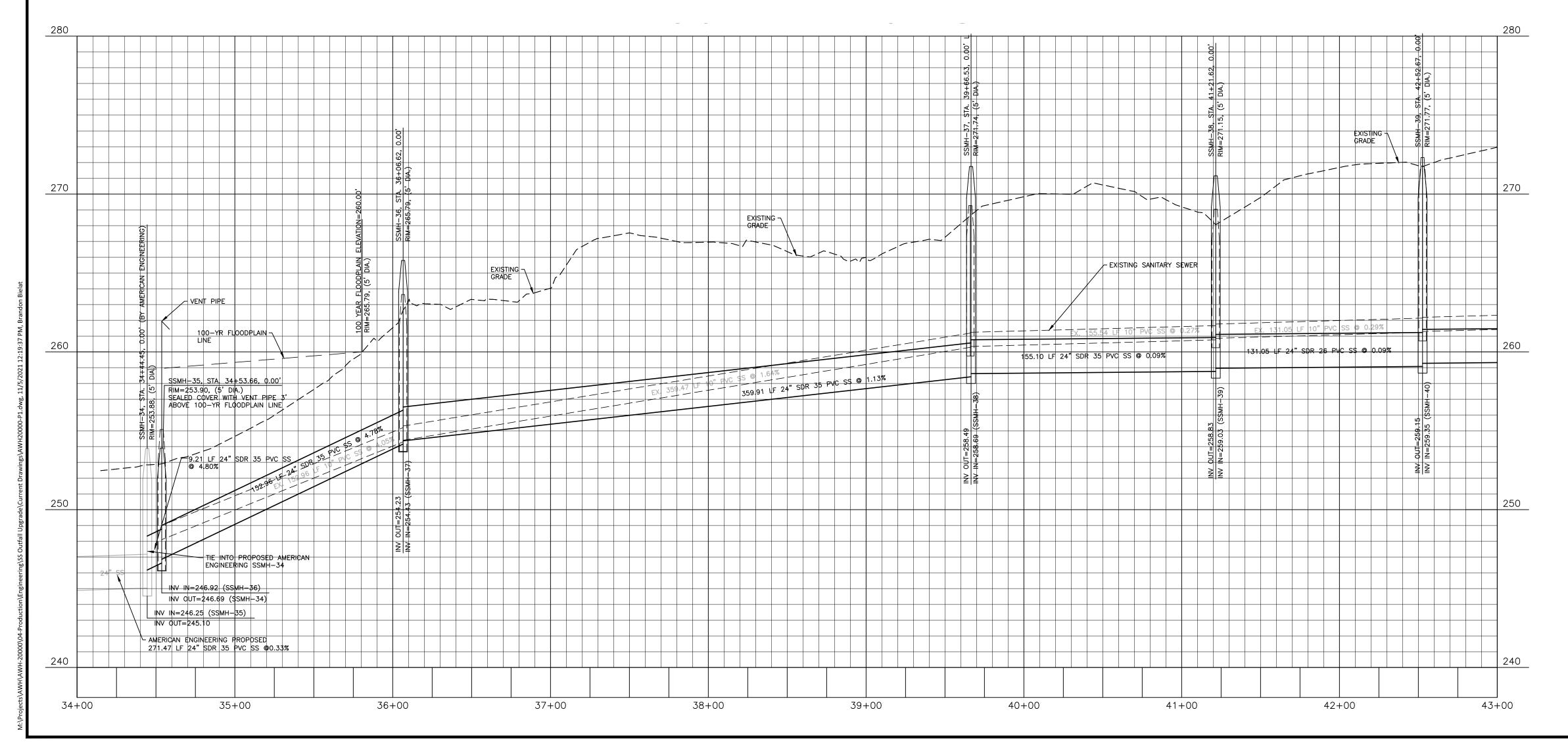
CHECKED BY DRAWN BY

SHEET

N.T.S. SCALE 10. 12. 2021

**PROJECT NOTES** 





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CLIENT

NAME

ADDRESS

ADDRESS

PHONE: XXX. XXX. XXXX

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1 XX. XX. XXXX REVISION DESCRIPTION
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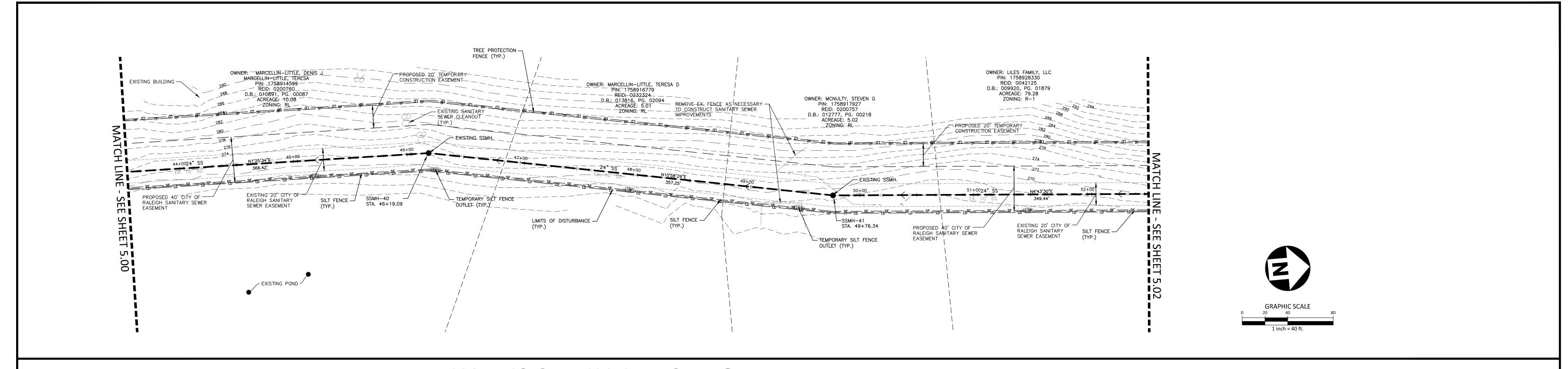
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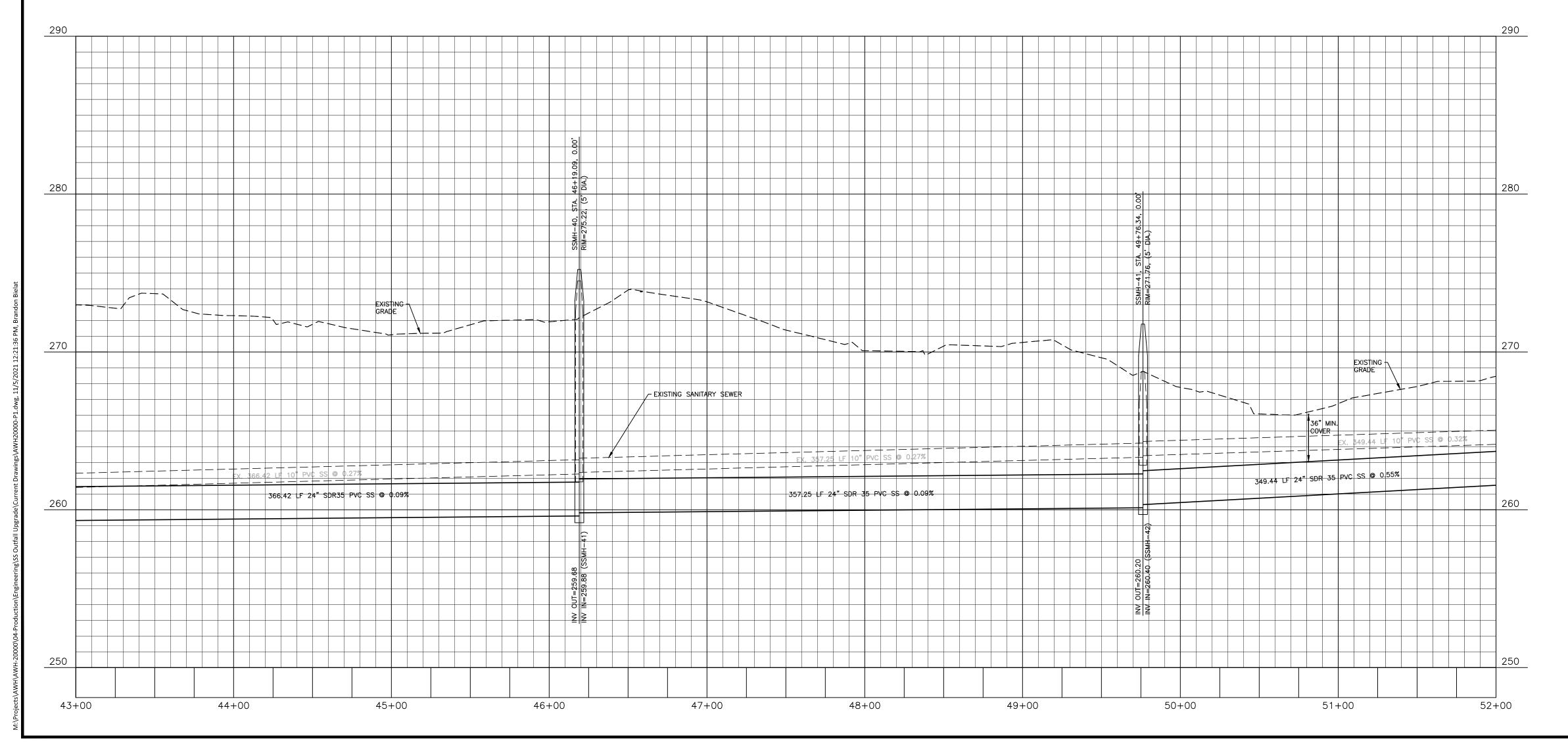
CONSTRUCTION DRAWINGS
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

### PLAN INFORMATION

PROJECT NO. AWH20000
FILENAME AWH20000-P1
CHECKED BY WTO
DRAWN BY BB
SCALE 1"=40'/1"=4'
DATE 10. 12. 2021

PLAN AND PROFILE
HARRIS CREEK INTERCEPTOR
STA. 34+00 THRU STA. 43+00





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**REVISIONS** 



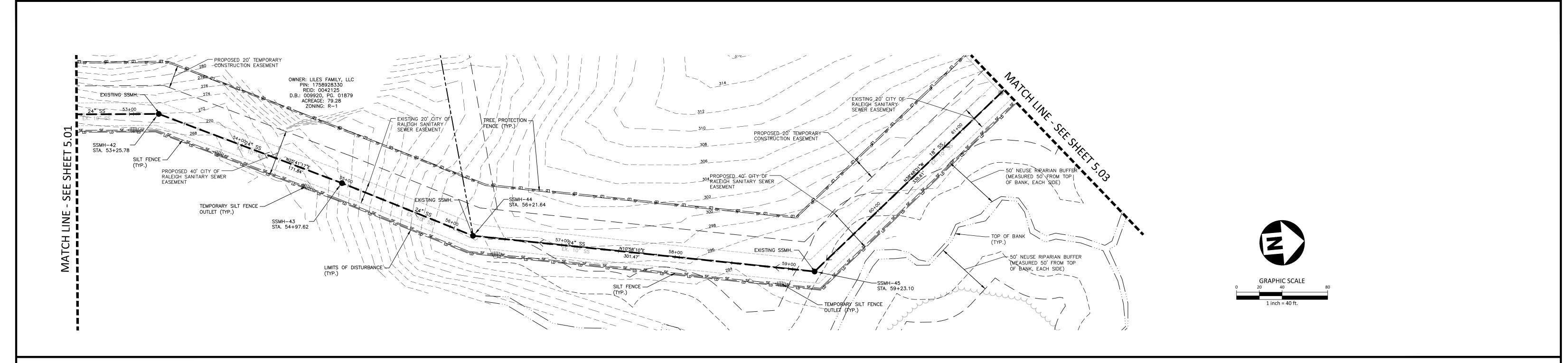
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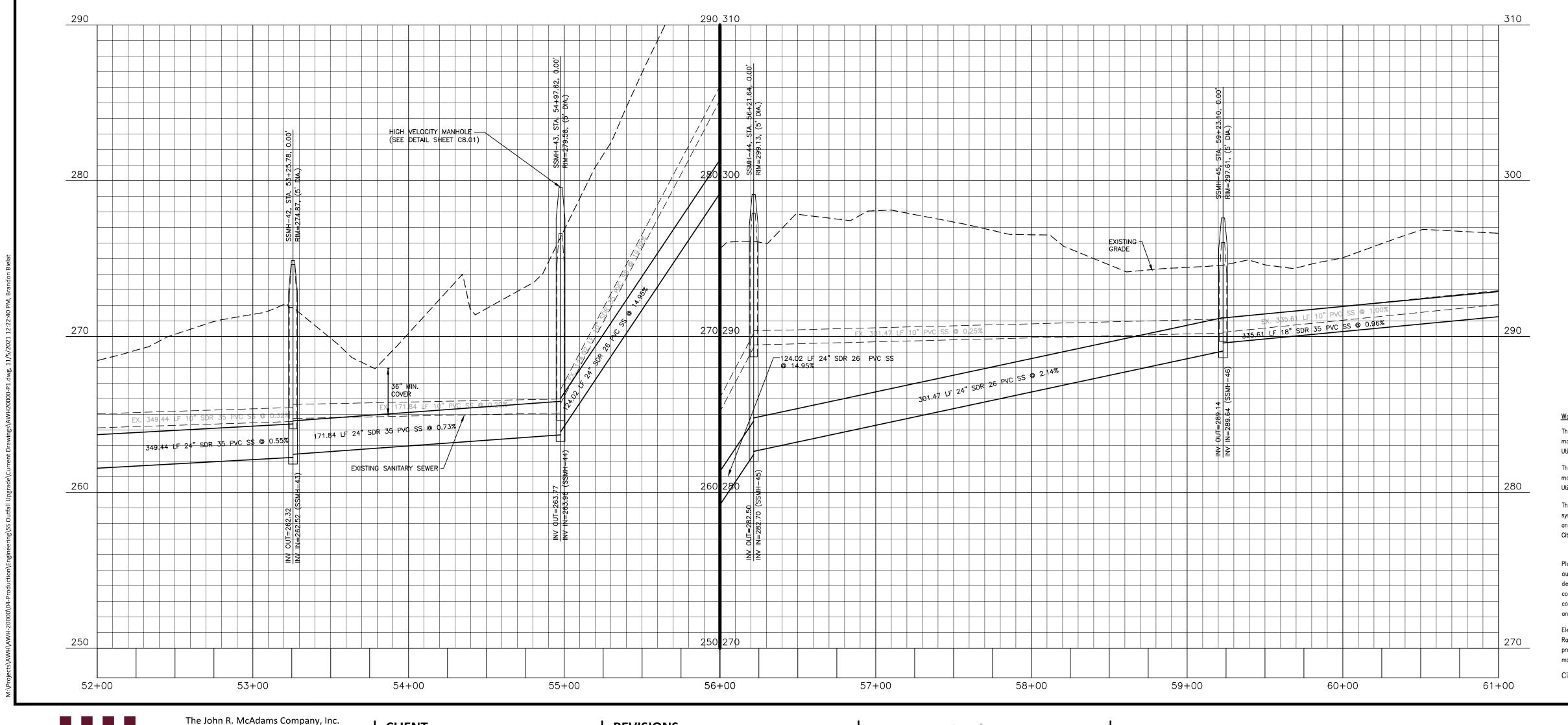
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MCADAMS

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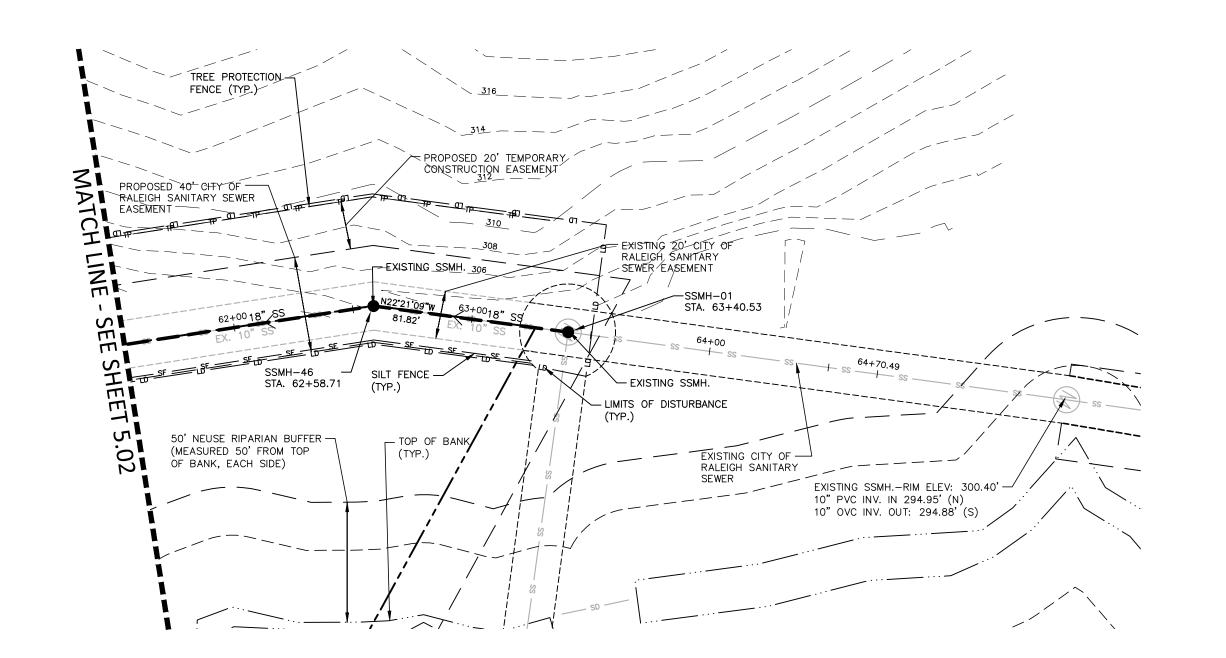
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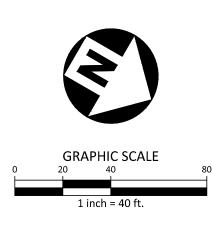
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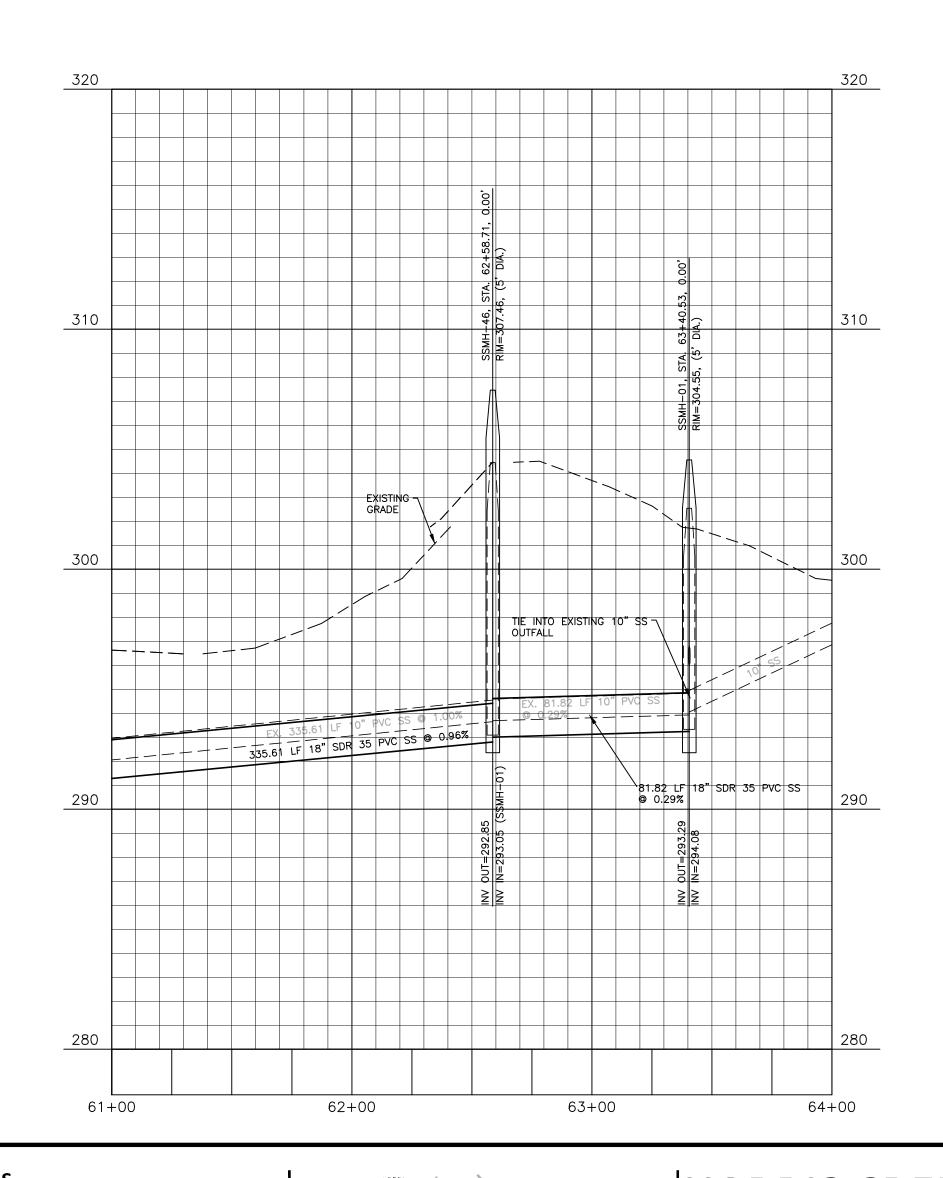
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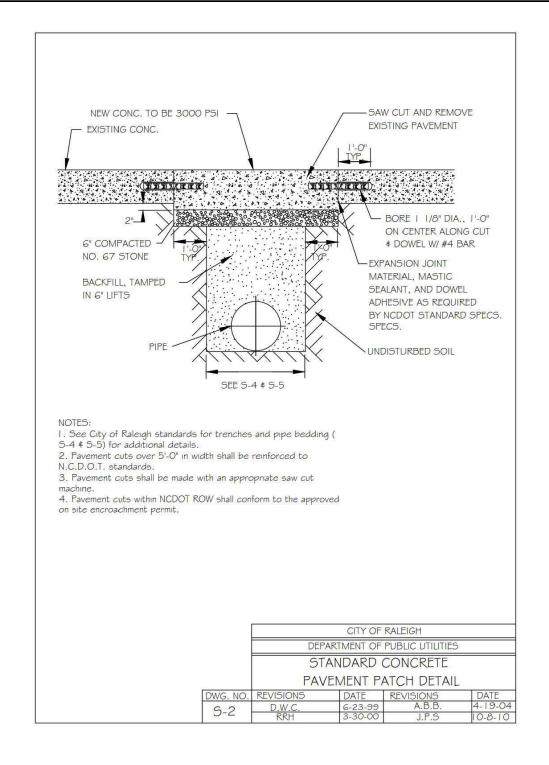
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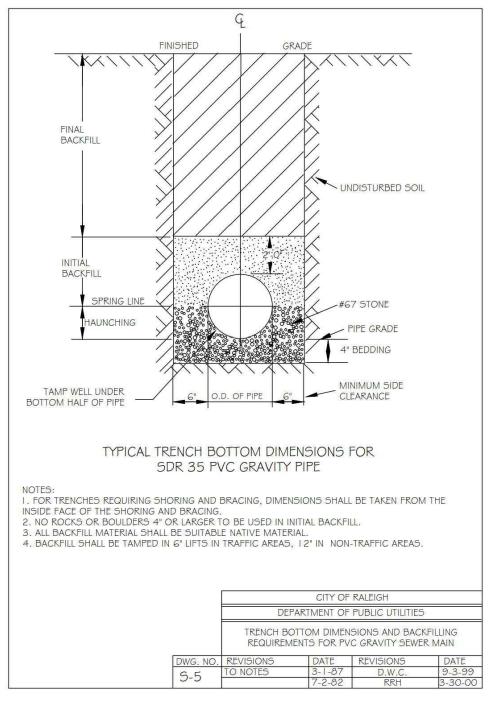
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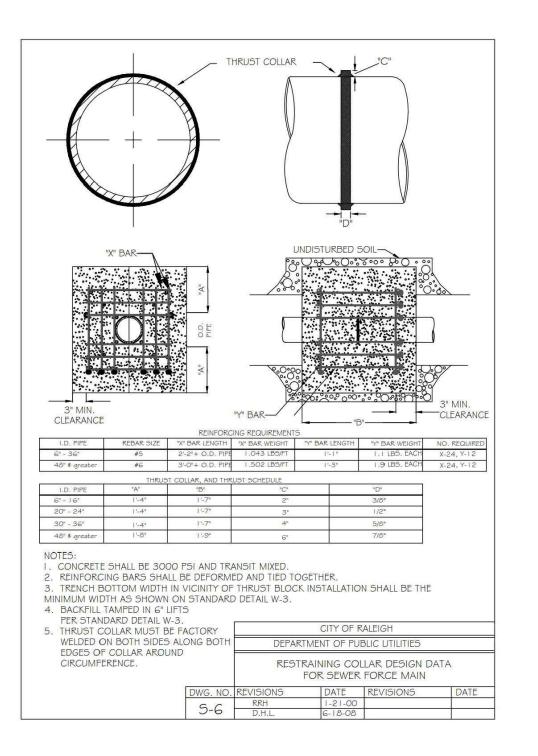
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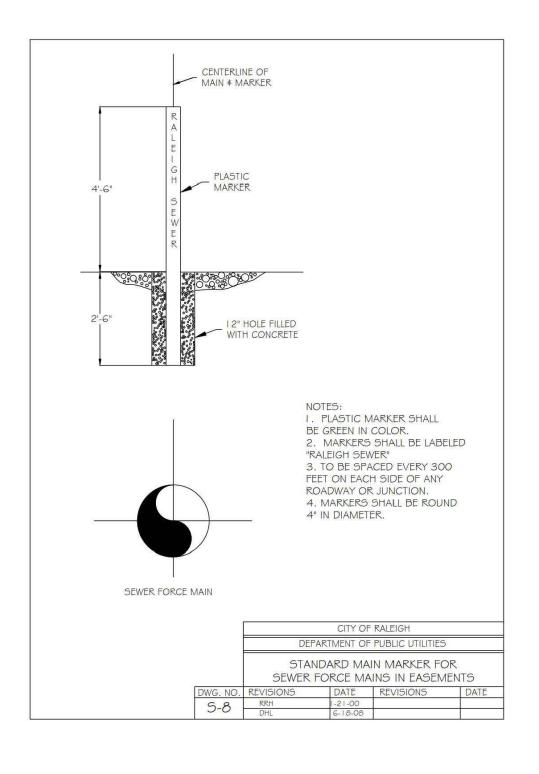
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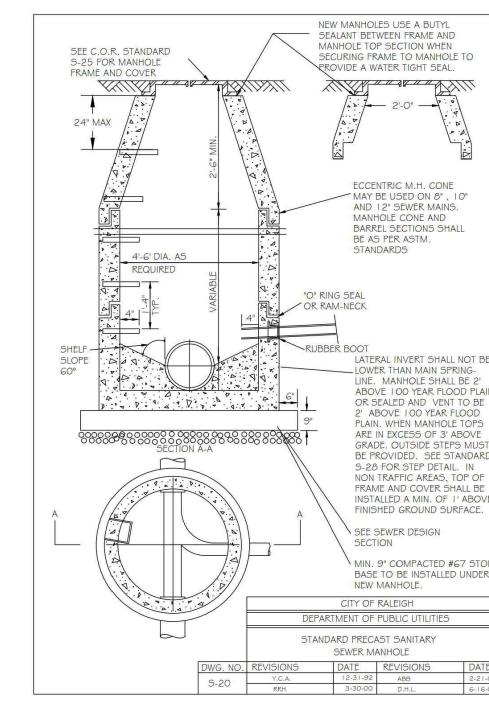
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HARRIS CREEK INTERCEPTOR
STA. 61+00 THRU STA. 64+00

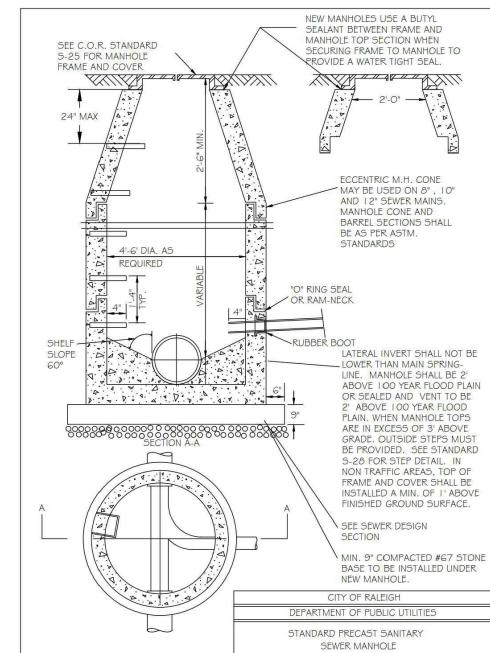


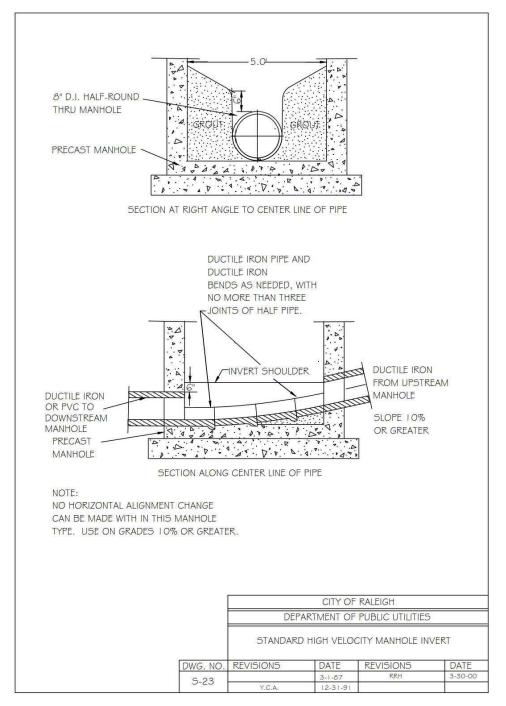








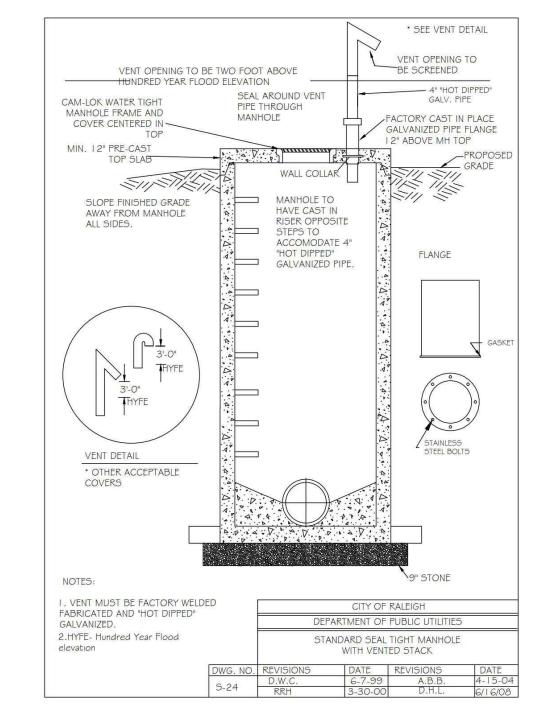


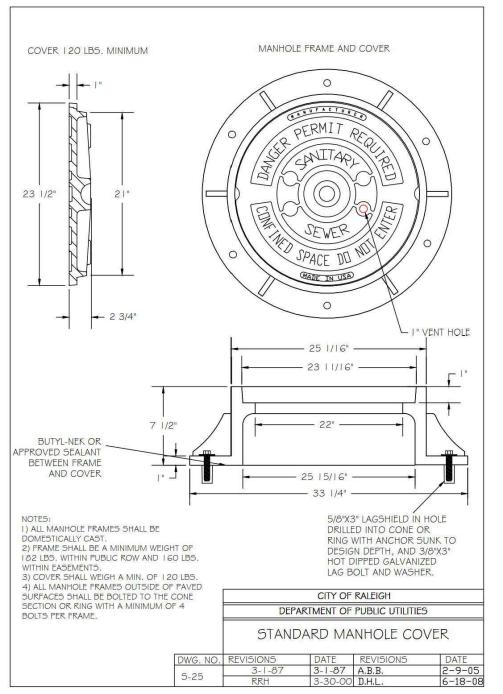


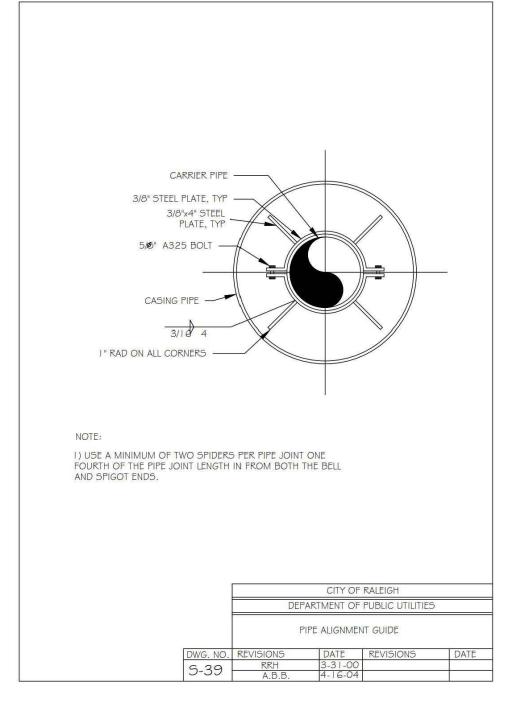
DEPARTMENT OF PUBLIC UTILITIES

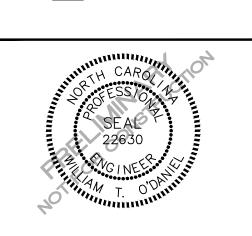
INSIDE DROP MANHOLE

SECTION A-A









The John R. McAdams Company, Inc.

2905 Meridian Parkway

Durham, NC 27713

phone 919. 361. 5000

fax 919. 361. 2269

license number: C-0293, C-187

www.mcadamsco.com

ASHTON RALEIGH RESIDENTIAL, LLC.

5711 SIX FORKS ROAD, SUITE 300

PHONE: 919. 232. 3695

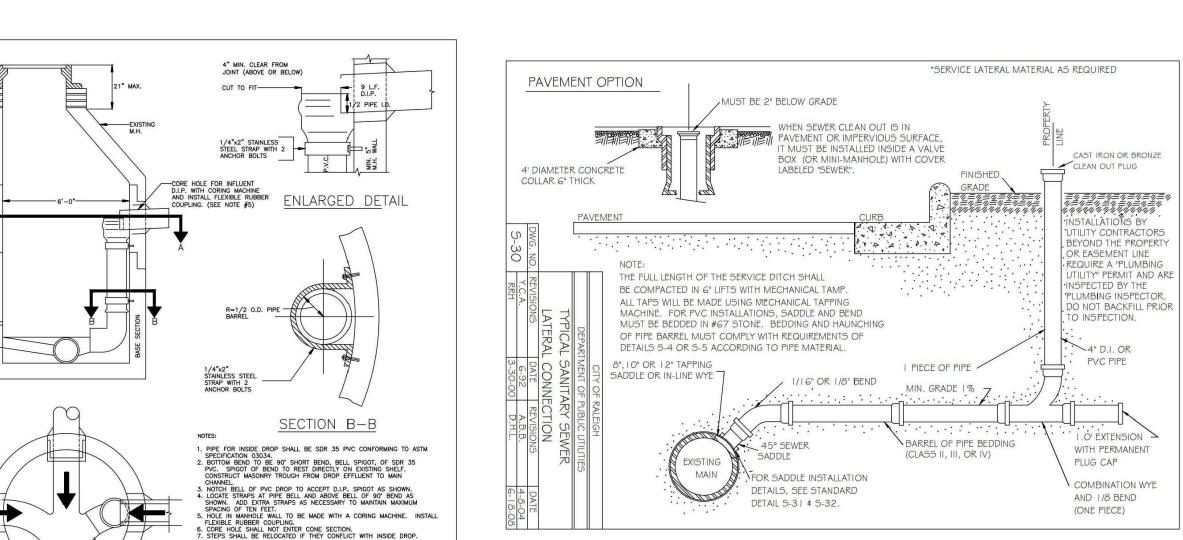
**CONTACT: BOB MISHLER** 

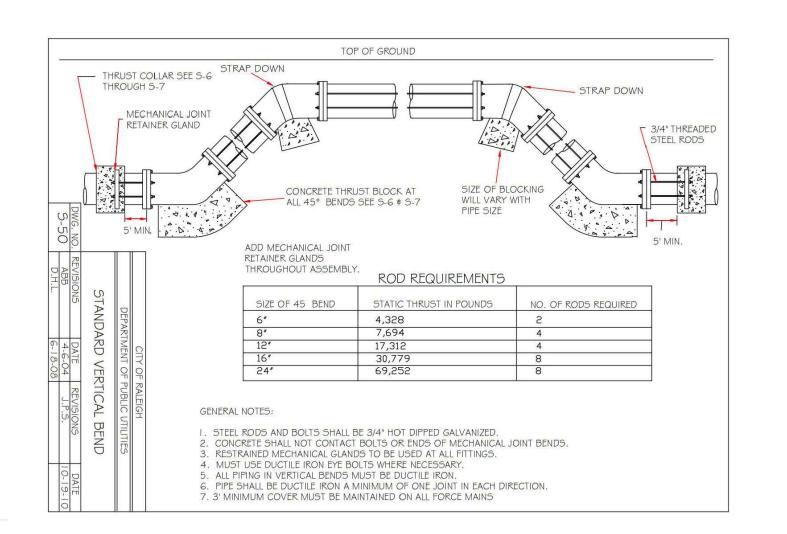
CE

RALEIGH, NORTH CAROLINA 27609

.\Images\Ashton Woods logo.jpg

CLIENT





Water and Sewer Permits (If applicable)

The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # \_

The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # \_

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.

Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval

City of Raleigh Review Officer

#### **REVISIONS**

NO. DATE

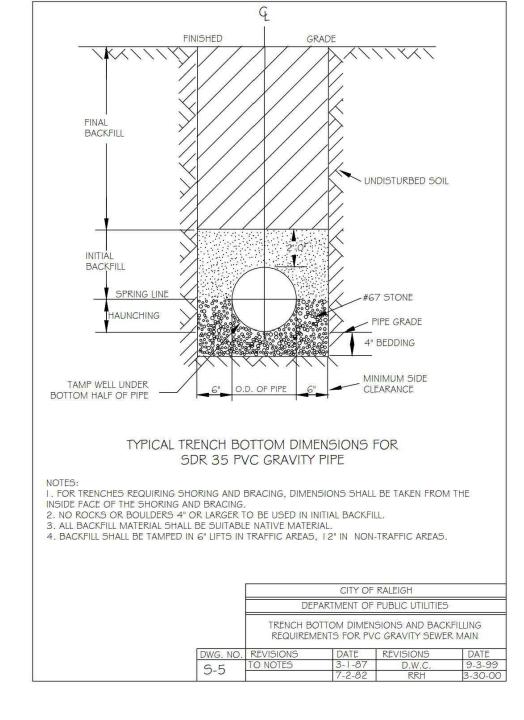
#### PLAN INFORMATION

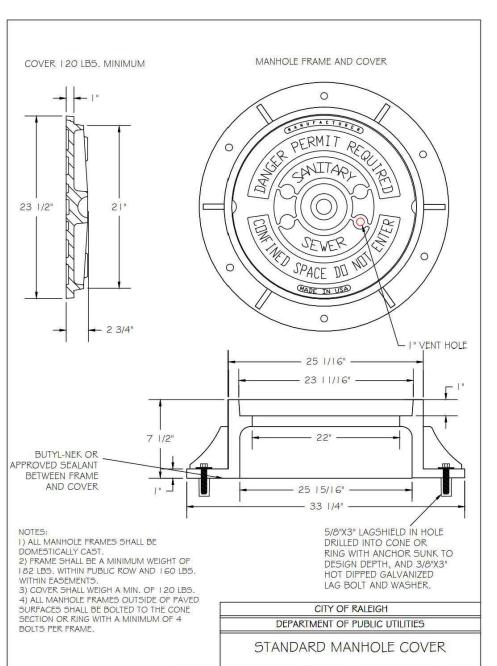
PROJECT NO. AWH-20000 FILENAME AWH20000-D1

CHECKED BY DRAWN BY

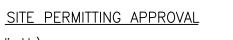
N.T.S. SCALE DATE 10. 12. 2021 SHEET

> **SANITARY SEWER DETAILS**



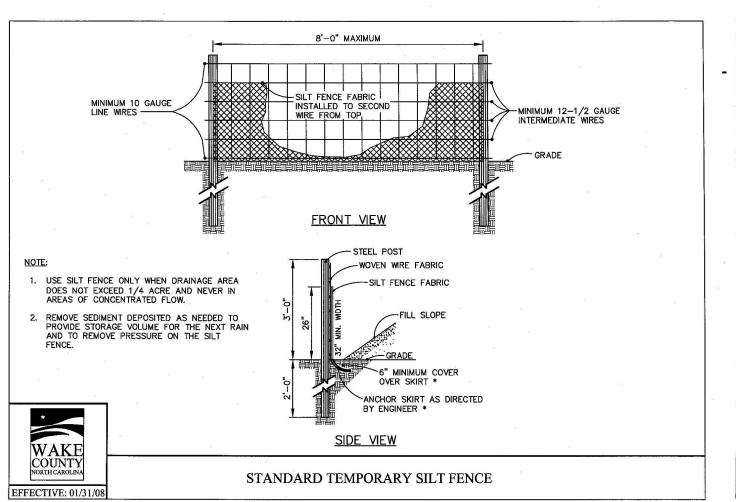


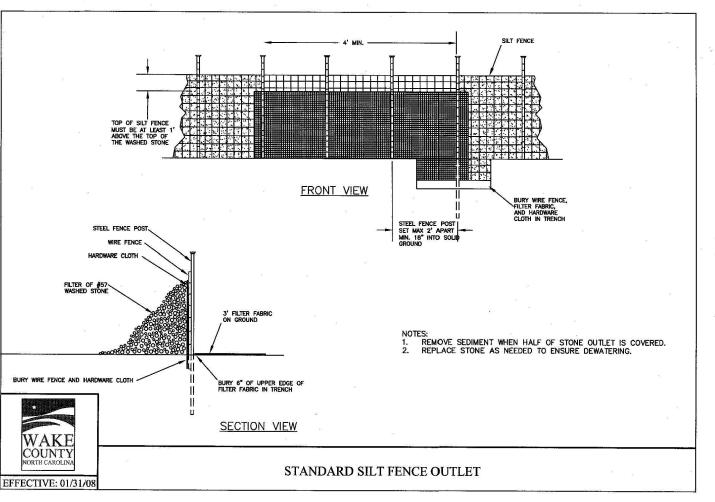


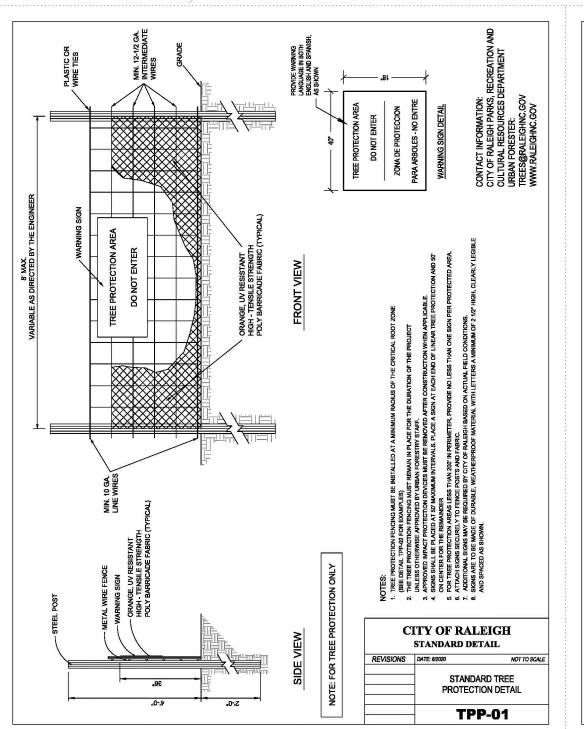


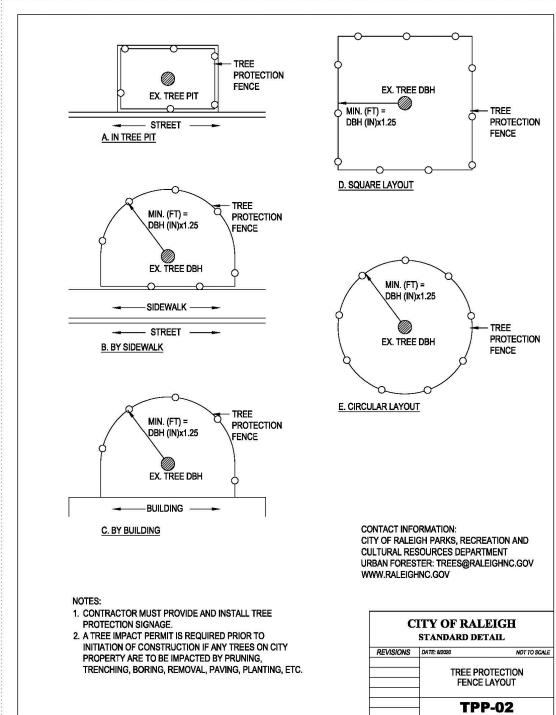
Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION











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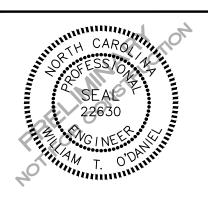
ASHTON RALEIGH RESIDENTIAL, LLC. 5711 SIX FORKS ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 PHONE: 919. 232. 3695 CONTACT: BOB MISHLER

.\Images\Ashton Woods logo.Jpg

# CEPTOR FS OWNSHIP,

IMPROVEMENTS

N OF ROLESVILLE, WAKE FOREST TOWNSHIP



#### SITE PERMITTING APPROVAL

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City of Raleigh Development Approval \_\_\_

City of Raleigh Review Officer

## REVISIONS

NO. DATE

#### PLAN INFORMATION

PROJECT NO. AWH-20000 FILENAME AWH20000-D1

CHECKED BY
DRAWN BY

 SCALE
 N.T.S.

 DATE
 10. 12. 2021

SHEET

EROSION CONTROL DETAILS

C8.02